

10/028,827

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=> s (fluoroalkanol or fluoroalcohol or fluorine (3a) alcohol) and (perfluoroolefin or tetrafluoroethylene) and (initiator or perox?) and (alcohol or methanol)

14 FILES SEARCHED...

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48 FILES SEARCHED...

53 FILES SEARCHED...

60 FILES SEARCHED...

65 FILES SEARCHED...

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L1 219 (FLUOROALKANOL OR FLUOROALCOHOL OR FLUORINE (3A) ALCOHOL) AND
(PERFLUOROOLEFIN OR TETRAFLUOROETHYLENE) AND (INITIATOR OR PEROX
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L2 192 DUP REM L1 (27 DUPLICATES REMOVED)

=> d 1-192 ti

L2 ANSWER 1 OF 192 USPATFULL on STN DUPLICATE 1
TI FLUORINATED TREATMENT FOR SOIL RESISTANCE

L2 ANSWER 2 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN NOVEL FLUOROPOLYMER, RESIST COMPOSITIONS CONTAINING THE SAME, AND NOVEL
FLUOROMONOMERS.

L2 ANSWER 3 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN PROCESS FOR PRODUCTION OF FLUORINE-CONTAINING NORBORNENE DERIVATIVES.

L2 ANSWER 4 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN METHOD FOR FORMING FINE PATTERN.

L2 ANSWER 5 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN Magnetic carrier, two-component developer and image forming method.
TIEN Magnetic carrier, two-component developer and image forming method.

L2 ANSWER 6 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN
TI PROCESS FOR PRODUCING A FLUOROALKANOL

L2 ANSWER 7 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN PHOTORESIST COMPOSITION FOR DEEP ULTRAVIOLET LITHOGRAPHY
TIFR COMPOSITION DE PHOTORESINE POUR LITHOGRAPHIE A ULTRAVIOLET PROFOND

L2 ANSWER 8 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN REACTION OF FLUOROPOLYMER MELTS
TIFR REACTION DE MELANGES FONDUS DE FLUOROPOLYMERES

L2 ANSWER 9 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN FLUORINE-CONTAINING VINYL ETHERS, THEIR POLYMERS, AND RESIST
COMPOSITIONS USING SUCH POLYMERS
TIFR ETHERS DE VINYLE CONTENANT DU FLUOR, POLYMERES DE CEUX-CI ET
COMPOSITIONS DE RESINE UTILISANT CES POLYMERES

L2 ANSWER 10 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN PHOTORESISTS, FLUOROPOLYMERS AND PROCESSES FOR 157 NM MICROLITHOGRAPHY

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TIFR RESINES PHOTSENSIBLES, FLUOROPOLYMERES ET PROCEDES DES
MICROLITHOGRAPHIE A 157 NM

L2 ANSWER 11 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN FLUORINATED POLYMERS USEFUL AS PHOTORESISTS, AND PROCESSES FOR
MICROLITHOGRAPHY

TIFR POLYMERES FLUORES UTILES EN TANT QUE PHOTORESINES, ET PROCEDES DE
MICROLITHOGRAPHIE

L2 ANSWER 12 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN FLUORINATED POLYMERS HAVING POLYCYCLIC GROUPS WITH FUSED 4-MEMBERED
CARBOCYCLIC RINGS, USEFUL AS PHOTORESISTS, AND PROCESSES FOR
MICROLITHOGRAPHY

TIFR POLYMERES FLUORES COMPRENANT DES GROUPES POLYCYCLIQUES COMPORTANT DES
NOYAUX CARBOCYCLIQUES CONDENSES A 4 ELEMENTS, UTILISABLES EN TANT QUE
RESINES PHOTSENSIBLES ET PROCEDES DE MICROLITHOGRAPHIE

L2 ANSWER 13 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN FLUORINATED MONOMERS, FLUORINATED POLYMERS HAVING POLYCYCLIC GROUPS WITH
FUSED 4-MEMBERED HETEROCYCLIC RINGS, USEFUL AS PHOTORESISTS, AND
PROCESSES FOR MICROLITHOGRAPHY

TIFR MONOMERES FLUORES, POLYMERES FLUORES COMPRENANT DES GROUPES
POLYCYCLIQUES POSSEDANT DES NOYAUX HETEROCYCLIQUES CONDENSES A 4
ELEMENTS, SERVANT DE PHOTORESINES, ET PROCEDES DE MICROLITHOGRAPHIE

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TIEN FLUORINATED TREATMENT FOR SOIL RESISTANCE
TIFR TRAITEMENT DE FLUORATION ANTISALISSURE

L2 ANSWER 15 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN CARPETS TREATED FOR SOIL RESISTANCE
TIFR TAPIS TRAITES POUR RESISTER AUX SALISSURES

L2 ANSWER 16 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN FLUORINATED POLYMERS, PHOTORESISTS AND PROCESSES FOR MICROLITHOGRAPHY
TIFR POLYMERES FLUORES, RESINES PHOTSENSIBLES ET PROCEDES DE
MICROLITHOGRAPHIE

L2 ANSWER 17 OF 192 USPATFULL on STN
TI Fluorine-containing compounds, fluorine-containing polymerizable
monomers, fluorine-containing polymers, dissolution inhibitors, and
resist compositions

L2 ANSWER 18 OF 192 USPATFULL on STN
TI Novel fluorine-containing polymer, resist composition prepared from same
and novel fluorine-containing monomer

L2 ANSWER 19 OF 192 USPATFULL on STN
TI Thermally stable perfluoropolyethers and processes therefor and
therewith

L2 ANSWER 20 OF 192 USPATFULL on STN
TI Toner, method of making, method of using

L2 ANSWER 21 OF 192 USPATFULL on STN
TI Fluorinated polymers having ester groups and photoresists for
microlithography

L2 ANSWER 22 OF 192 USPATFULL on STN
TI Photoresist composition for deep ultraviolet lithography

L2 ANSWER 23 OF 192 USPATFULL on STN

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TI Photoresist composition for deep ultraviolet lithography

L2 ANSWER 24 OF 192 USPATFULL on STN

TI Use of partially fluotinated polymers in applications requiring transparency in the ultraviolet and vacuum ultraviolet

L2 ANSWER 25 OF 192 USPATFULL on STN

TI Polymers blends and their use in photoresist compositions for microlithography

L2 ANSWER 26 OF 192 USPATFULL on STN

TI Reaction of fluoropolymer melts

L2 ANSWER 27 OF 192 USPATFULL on STN

TI Photoresists with hydroxylated, photoacid-cleavable groups

L2 ANSWER 28 OF 192 USPATFULL on STN

TI Fluorine-containing allyl ether compounds, their copolymers, and resist compositions and anti-reflection film materials using such copolymers

L2 ANSWER 29 OF 192 USPATFULL on STN

TI Fluorine-containing compounds and their polymers useful for anti-reflection film materials and resist compositions

L2 ANSWER 30 OF 192 USPATFULL on STN

TI Enzyme electrode and process for manufacturing the same

L2 ANSWER 31 OF 192 USPATFULL on STN

TI Polycyclic fluorine-containing polymers and photoresists for microlithography

L2 ANSWER 32 OF 192 USPATFULL on STN

TI Reaction of fluoropolymer melts

L2 ANSWER 33 OF 192 USPATFULL on STN

TI Multilayer elements containing photoresist compositions and their use in microlithography

L2 ANSWER 34 OF 192 USPATFULL on STN

TI Protecting groups in polymers, photoresists and processes for microlithography

L2 ANSWER 35 OF 192 USPATFULL on STN

TI Curable fluoropolymer, curable resin composition containing the same, and antireflection film

L2 ANSWER 36 OF 192 USPATFULL on STN

TI Carpets treated for soil resistance

L2 ANSWER 37 OF 192 USPATFULL on STN

TI Antireflective layer for use in microlithography

L2 ANSWER 38 OF 192 USPATFULL on STN

TI Anti-reflection film, polarizing plate comprising the same, and image display device using the anti-reflection film or the polarizing plate

L2 ANSWER 39 OF 192 USPATFULL on STN

TI Fluorinated polymers, photoresists and processes for microlithography

L2 ANSWER 40 OF 192 USPATFULL on STN

TI Functional trifluorovinyl monomers and their copolymerisation with fluorinated olefins

L2 ANSWER 41 OF 192 USPATFULL on STN
TI High lubricity, multi-layer polyolefin laminate

L2 ANSWER 42 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 2
TI COPOLYMERS FOR PHOTORESISTS AND PROCESSES THEREFOR

L2 ANSWER 43 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 3
TI MONOHYDRIC POLYFLUOROOXETANE OLIGOMERS, POLYMERS, AND COPOLYMERS AND COATINGS CONTAINING THE SAME

L2 ANSWER 44 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 4
TI MONOHYDRIC POLYFLUOROOXETANE OLIGOMERS, POLYMERS, AND COPOLYMERS AND COATING CONTAINING THE SAME; FOR USE AS RADIATION CURABLE OR THERMAL CURABLE COATING

L2 ANSWER 45 OF 192 USPATFULL on STN DUPLICATE 5
TI Fluorine-containing copolymer, composition for forming a film, anti-reflection film, and image display device

L2 ANSWER 46 OF 192 USPATFULL on STN DUPLICATE 6
TI Fluorine-containing polymerisable monomer and polymer prepared by using same

L2 ANSWER 47 OF 192 USPATFULL on STN DUPLICATE 7
TI Optical waveguide

L2 ANSWER 48 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN CURABLE FLUOROPOLYMER, CURABLE RESIN COMPOSITION CONTAINING THE SAME, AND ANTIREFLECTION FILM.

L2 ANSWER 49 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN PROCESS FOR PRODUCING FLUOROALKANOL.

L2 ANSWER 50 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN PROCESS FOR PRODUCING FLUORINATED ALCOHOL.

L2 ANSWER 51 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN LAYERED PRODUCT OF OLEFIN FOAM AND USE.

L2 ANSWER 52 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN Fluorine-containing diene, its production method and its polymer.
TIEN Fluorine-containing diene, its production method and its polymer.

L2 ANSWER 53 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN Optical waveguide.
TIEN Optical waveguide.

L2 ANSWER 54 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN Fluorine-containing polymer composition.
TIEN Fluorine-containing polymer composition.

L2 ANSWER 55 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN COATINGS CONTAINING FLUORINATED ESTERS.

L2 ANSWER 56 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN Toner, two-component developer and image forming method.
TIEN Toner, two-component developer and image forming method.

L2 ANSWER 57 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN Image forming method and image forming apparatus.
TIEN Image forming method and use of a specific developer in an image forming

apparatus.

- L2 ANSWER 58 OF 192 INPADOC COPYRIGHT 2004 EPO on STN
- TI METHOD OF SYNTHESIS OF FLUOROALCOHOL, COMPOSITE COMPRISING
FLUOROALCOHOL, ITS APPLICATION AS DYE SOLVENT, OPTICAL DISK WITH
RECORDING LAYER BASED ON FLUOROALCOHOL.

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- TIEN POLYMER HAVING CHARGED UNITS
- TIFR POLYMERES RENFERMANT DES UNITES CHARGEES

- L2 ANSWER 60 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
- TIEN HIGH REFRACTION FILM, HIGH REFRACTION FILM-FORMING COATING COMPOSITION,
ANTI-REFLECTION FILM, PROTECTIVE FILM FOR POLARIZING PLATE, POLARIZING
PLATE AND IMAGE DISPLAY DEVICE
- TIFR FILM A FORTE REFRACTION, COMPOSITION DE REVETEMENT FORMANT UN FILM A
FORTE REFRACTION, FILM ANTI-REFLEXION, FILM PROTECTEUR POUR PLAQUE DE
POLARISATION, PLAQUE DE POLARISATION ET DISPOSITIF D'AFFICHAGE D'IMAGES

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- TIFR COPOLYMERES FLUORES POUR LA MICROLITHOGRAPHIE

- L2 ANSWER 62 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
- TIEN OXETANE BLOCK-CONTAINING COPOLYMERS
- TIFR COPOLYMERES CONTENANT UN BLOC OXETANE

- L2 ANSWER 63 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
- TIEN FLUORINATED POLYMERS HAVING ESTER GROUPS AND PHOTORESISTS FOR
MICROLITHOGRAPHY
- TIFR POLYMERES FLUORES AYANT DES GROUPES ESTER ET PHOTORESINES POUR
MICROLITHOGRAVURE

- L2 ANSWER 64 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
- TIEN LEVELLING AGENT AND ANTI-CRATERING AGENT
- TIFR AGENT EGALISANT ET ANTI-FORMATION DE CRATERES

- L2 ANSWER 65 OF 192 USPATFULL on STN
- TI High molecular compound, monomer compounds and photosensitive
composition for photoresist, pattern forming method utilizing
photosensitive composition, and method of manufacturing electronic
components

- L2 ANSWER 66 OF 192 USPATFULL on STN
- TI Fluorine-containing polymerizable monomers and polymers, anti-reflection
film materials and resist compositions using same

- L2 ANSWER 67 OF 192 USPATFULL on STN
- TI Anti-reflection film and image display device

- L2 ANSWER 68 OF 192 USPATFULL on STN
- TI Stable dispersion concentrates

- L2 ANSWER 69 OF 192 USPATFULL on STN
- TI Anti-reflection film, polarizing plate comprising the same, and image
display device using the anti-reflection film or the polarizing plate

- L2 ANSWER 70 OF 192 USPATFULL on STN
- TI Polymeric blocks of an oxetane oligomer, polymer or copolymer,
containing ether side chains terminated by fluorinated aliphatic groups,
and hydrocarbon polymers or copolymers

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L2 ANSWER 71 OF 192 USPATFULL on STN
TI Process for producing a fluoroalkanol

L2 ANSWER 72 OF 192 USPATFULL on STN
TI Process for producing a fluorinated alcohol

L2 ANSWER 73 OF 192 USPATFULL on STN
TI Method for removing a sacrificial material with a compressed fluid

L2 ANSWER 74 OF 192 USPATFULL on STN
TI Thermally stable perfluoropolyethers and processes therefor and therewith

L2 ANSWER 75 OF 192 USPATFULL on STN
TI Endoscope

L2 ANSWER 76 OF 192 USPATFULL on STN
TI Perfluoroalkyl haloalkyl ethers and compositions and applications thereof

L2 ANSWER 77 OF 192 USPATFULL on STN
TI Nitrile/fluoroalcohol-containing photoresists and associated processes for microlithography

L2 ANSWER 78 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8
TI Process for producing fluoroalcohol

L2 ANSWER 79 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 9
TI Preparation of fluoroalkanols by telomerization

L2 ANSWER 80 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 10
TI PROCESS FOR PRODUCING A FLUOROALKANOL; REACTING ALKANOL WITH A PERFLUOROOLEFIN IN PRESENCE OF RADICAL INITIATOR TO PRODUCE FLUOROALKANOL

L2 ANSWER 81 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 11
TI PROCESS FOR PRODUCTION OF FLUOROALCOHOL; REACTING METHANOL WITH TETRAFLUOROETHYLENE OR HEXAFLUOROPROPYLENE

L2 ANSWER 82 OF 192 USPATFULL on STN DUPLICATE 12
TI Fluorine-containing diene, its production method and its polymer

L2 ANSWER 83 OF 192 USPATFULL on STN DUPLICATE 13
TI Fluoromonomer polymerization

L2 ANSWER 84 OF 192 USPATFULL on STN DUPLICATE 14
TI Micro-electromechanical system

L2 ANSWER 85 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN
TI Process for producing fluoroalkanol

L2 ANSWER 86 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN PROCESS FOR PRODUCING FLUOROALKANOL.

L2 ANSWER 87 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN Process for production of fluoroalcohol.

L2 ANSWER 88 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN PROTECTIVE FILMS AND COATINGS.

L2 ANSWER 89 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Process for production of fluoroalcohol and its use for the manufacture of an information recording medium.

TIEN Process for production of fluoroalcohol and its use for the manufacture of an information recording medium.

L2 ANSWER 90 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN FLUORINATED TRIALLYL ISOCYANURATES, VULCANIZABLE ELASTOMER COMPOSITIONS CONTAINING THE SAME, AND METHOD FOR VULCANIZATION.

TIEN FLUORINATED TRIALLYL ISOCYANURATES, VULCANIZABLE ELASTOMER COMPOSITIONS CONTAINING THE SAME, AND METHOD FOR VULCANIZATION.

L2 ANSWER 91 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN METHOD FOR STABILIZING FLUOROPOLYMER.

TIEN METHOD FOR STABILIZING FLUOROPOLYMER.

L2 ANSWER 92 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Low dielectric resin composition.

TIEN Low dielectric resin composition.

L2 ANSWER 93 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN

TIEN USE OF PARTIALLY FLUORINATED POLYMERS IN APPLICATIONS REQUIRING TRANSPARENCY IN THE ULTRAVIOLET AND VACUUM ULTRAVIOLET

TIFR UTILISATION DE POLYMERES PARTIELLEMENT FLUORES DANS DES APPLICATIONS NECESSITANT LA TRANSPARENCE DANS L'ULTRAVIOLET ET L'ULTRAVIOLET EXTREME

L2 ANSWER 94 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN

TIEN ANTIMICROBIAL POWDER COATED METAL SHEET

TIFR FEUILLE METALLIQUE REVETUE D'UNE POUDRE ANTIMICROBIENNE

L2 ANSWER 95 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN

TIEN POLYCYCLIC FLUORINE-CONTAINING POLYMERS AND PHOTORESISTS FOR MICROLITHOGRAPHY

TIFR FLUOROPOLYMERES POLYCYCLIQUES ET PHOTORESINES POUR MICROLITHOGRAVURE

L2 ANSWER 96 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN

TIEN PROTECTING GROUPS IN POLYMERS, PHOTORESISTS AND PROCESSES FOR MICROLITHOGRAPHY

TIFR GROUPE PROTECTEURS DANS LES POLYMERES, LES PHOTORESINES ET PROCEDES DE MICROLITHOGRAPHIE

L2 ANSWER 97 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN

TIEN ANTIREFLECTIVE LAYER FOR USE IN MICROLITHOGRAPHY

TIFR COUCHE ANTI-REFLECHISSANTE DESTINEE A ETRE UTILISEE EN MICROLITHOGRAPHIE

L2 ANSWER 98 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN

TIEN MULTILAYER ELEMENTS CONTAINING PHOTORESIST COMPOSITIONS AND THEIR USE IN MICROLITHOGRAPHY

TIFR ELEMENTS MULTICOUCHES CONTENANT DES COMPOSITIONS DE PHOTORESIST ET LEUR UTILISATION DANS LA MICROLITHOGRAPHIE

L2 ANSWER 99 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN

TIEN BASES AND SURFACTANTS AND THEIR USE IN PHOTORESIST COMPOSITIONS FOR MICROLITHOGRAPHY

TIFR BASES ET TENSIOACTIFS, ET LEUR UTILISATION DANS DES COMPOSITIONS DE PHOTORESINE POUR MICROLITHOGRAVURE

L2 ANSWER 100 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN

TIEN POLYMERS BLENDS AND THEIR USE IN PHOTORESIST COMPOSITIONS FOR MICROLITHOGRAPHY

TIFR MELANGES DE POLYMERES ET LEUR UTILISATION DANS DES COMPOSITIONS DE PHOTORESINE DESTINEES A LA MICROLITHOGRAPHIE

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L2 ANSWER 101 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN FLUORINATED PHENOLIC POLYMERS AND PHOTORESIST COMPOSITIONS COMPRISING
SAME
TIFR POLYMERES PHENOLIQUES FLUORES ET COMPOSITIONS DE PHOTORESINE LES
CONTENANT

L2 ANSWER 102 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN PERFLUOROPOLYETHERS AND PROCESSES THEREFOR AND THEREWITH
TIFR PERFLUOROPOLYETHERS ET LEURS PROCEDES DE PREPARATION ET D'UTILISATION

L2 ANSWER 103 OF 192 USPATFULL on STN
TI Layered product olefin foam and use

L2 ANSWER 104 OF 192 USPATFULL on STN
TI Fluorinated phenolic polymers and photoresist compositions comprising
same

L2 ANSWER 105 OF 192 USPATFULL on STN
TI Novel polymers and photoresist compositions for short short wavelength
imaging

L2 ANSWER 106 OF 192 USPATFULL on STN
TI Resin compositions for skin members and laminates thereof

L2 ANSWER 107 OF 192 USPATFULL on STN
TI Fluoromonomer polymerization

L2 ANSWER 108 OF 192 USPATFULL on STN
TI Anti-reflection film and display device having the same

L2 ANSWER 109 OF 192 USPATFULL on STN
TI Image forming material and preparation method thereof

L2 ANSWER 110 OF 192 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN
TI Process for producing fluoroalkanols, for use as intermediate materials
and as dissolving agent for dyes, comprises a telomerization of
tetrafluoroethylene and methanol.

L2 ANSWER 111 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 15
TI Process for producing fluoroalkanol

L2 ANSWER 112 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 16
TI PROCESS FOR PRODUCING FLUOROALCOHOL; REACTION OF
METHANOL WITH TETRAFLUOROETHYLENE OR HEXAFLUOROPROPYLENE
IN THE PRESENCE OF INITIATOR

L2 ANSWER 113 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN DUPLICATE
DUPLICATE 17
TIEN COPOLYMERS FOR PHOTORESISTS AND PROCESSES THEREFOR
TIFR COPOLYMERES POUR PHOTORESINES ET PROCEDES AFFERENTS

L2 ANSWER 114 OF 192 USPATFULL on STN DUPLICATE 18
TI Fluorine-containing polymer composition

L2 ANSWER 115 OF 192 USPATFULL on STN DUPLICATE 19
TI Fluorine-containing diene, its production method and its polymer

L2 ANSWER 116 OF 192 USPATFULL on STN DUPLICATE 20
TI Optical waveguide

L2 ANSWER 117 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN ELECTRODE FOR NONAQUEOUS ELECTROLYTE BATTERY.

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L2 ANSWER 118 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN Anti-reflection film, polarizing plate comprising the same, and image display device using the anti-reflection film or the polarizing plate.

L2 ANSWER 119 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN ANTIREFLECTION FILM AND NONGLARE ARTICLE.

L2 ANSWER 120 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN POLYMERS WITH CRYSTALLIZABLE FLUOROCARBON SIDE CHAINS, THEIR MONOMERS, AND SUBSTRATES COATED WITH THE POLYMERS.

L2 ANSWER 121 OF 192 INPADOC COPYRIGHT 2004 EPO on STN
TI METHOD OF PREPARING FLUOROALCOHOL.

L2 ANSWER 122 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN MONOHYDRIC POLYFLUOROOXETANE OLIGOMERS, POLYMERS, AND COPOLYMERS AND COATINGS CONTAINING THE SAME
TIFR OLIGOMERES, POLYMERES ET COPOLYMERES DE POLYFLUOROOXETANE MONOHYDRIQUES ET REVETEMENTS CONTENANT CES COMPOSES

L2 ANSWER 123 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN NITRILE/FLUOROALCOHOL-CONTAINING PHOTORESISTS AND ASSOCIATED PROCESSES FOR MICROLITHOGRAPHY
TIFR PHOTORESISTS A BASE DE NITRILE/FLUOROALCOOL ET PROCEDES DE MICROLITHOGRAPHIE ASSOCIES

L2 ANSWER 124 OF 192 USPATFULL on STN
TI Method of manufacturing light transmission tubes

L2 ANSWER 125 OF 192 USPATFULL on STN
TI Method for manufacturing fluoroalcohol

L2 ANSWER 126 OF 192 USPATFULL on STN
TI Fluorine-containing polymer composition

L2 ANSWER 127 OF 192 USPATFULL on STN
TI Enzyme electrode and a biosensor and a measuring apparatus therewith

L2 ANSWER 128 OF 192 USPATFULL on STN
TI Light transmission tubes

L2 ANSWER 129 OF 192 USPATFULL on STN
TI Optical waveguide

L2 ANSWER 130 OF 192 USPATFULL on STN
TI Fluorine-containing polymer composition

L2 ANSWER 131 OF 192 USPATFULL on STN
TI Fluorinated triallyl isocyanurates, vulcanizable elastomer compositions containing the same, and method for vulcanization

L2 ANSWER 132 OF 192 USPATFULL on STN
TI Fluorine-containing polymer composition

L2 ANSWER 133 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN DUPLICATE 21
TIEN Process for producing fluoroalcohol.

L2 ANSWER 134 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN Laminate comprising a sliding member layer and a substrate layer.

L2 ANSWER 135 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

TIEN Resin compositions for skin members and laminates thereof.

L2 ANSWER 136 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
 TIEN An enzyme electrode and a biosensor and a measuring apparatus therewith.

L2 ANSWER 137 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
 TIEN Method for manufacturing fluoroalcohol.

L2 ANSWER 138 OF 192 USPATFULL on STN
 TI Anti-reflection film and display device having the same

L2 ANSWER 139 OF 192 USPATFULL on STN
 TI Image forming method and image forming apparatus using specific developer composition

L2 ANSWER 140 OF 192 USPATFULL on STN
 TI Cosmetic preparations containing fluorinated oils

L2 ANSWER 141 OF 192 USPATFULL on STN
 TI Magnetic carrier, two-component developer and image forming method

L2 ANSWER 142 OF 192 USPATFULL on STN
 TI Toner, two-component developer and image forming method

L2 ANSWER 143 OF 192 USPATFULL on STN
 TI Process for producing surface-modified rubber, surface-modified rubber, and sealing material

L2 ANSWER 144 OF 192 USPATFULL on STN
 TI Silver halide photosensitive material and method for forming image

L2 ANSWER 145 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
 TIEN Anti-reflection film and display device having the same.

L2 ANSWER 146 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
 TIEN PROCESS FOR PRODUCING SURFACE-MODIFIED RUBBER, SURFACE-MODIFIED RUBBER, AND SEALING MATERIAL.

L2 ANSWER 147 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
 TIEN PROTECTIVE FILMS AND COATINGS
 TIFR FILMS ET REVETEMENTS PROTECTEURS

L2 ANSWER 148 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
 TIEN PERFLUOROALKYL HALOALKYL ETHERS AND COMPOSITIONS AND APPLICATIONS THEREOF
 TIFR PERFLUOROALKYLE HALOALKYLE ETHERS, COMPOSITIONS ET LEURS APPLICATIONS

L2 ANSWER 149 OF 192 USPATFULL on STN
 TI Fluorine-containing olefin, fluorine-containing polymer and thermoplastic resin composition prepared by using said polymer

L2 ANSWER 150 OF 192 USPATFULL on STN
 TI Protective films and coatings

L2 ANSWER 151 OF 192 USPATFULL on STN
 TI Low dielectric resin composition

L2 ANSWER 152 OF 192 USPATFULL on STN
 TI Process for making inorganic oxide gels in fluorocarbon solvents

L2 ANSWER 153 OF 192 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN
 TI Preparation of fluoroalcohols for use as solvents in information recording

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media adapted for laser reading and/or writing.

- L2 ANSWER 154 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN FLUOROOLEFIN, FLUOROPOLYMER, AND THERMOPLASTIC RESIN COMPOSITION
CONTAINING THE POLYMER.
TIEN FLUOROOLEFIN, FLUOROPOLYMER, AND THERMOPLASTIC RESIN COMPOSITION
CONTAINING THE POLYMER.
- L2 ANSWER 155 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN COATINGS CONTAINING FLUORINATED ESTERS
TIFR REVETEMENTS CONTENANT DES ESTERS FLUORES
- L2 ANSWER 156 OF 192 USPATFULL on STN
TI Fluoropolymer nanocomposites
- L2 ANSWER 157 OF 192 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN POLYMERS WITH CRYSTALLIZABLE FLUOROCARBON SIDE CHAINS, THEIR MONOMERS,
AND SUBSTRATES COATED WITH THE POLYMERS
TIFR POLYMERES A CHAINES LATERALES FLUOROCARBONEES CRISTALLISABLES, LEURS
MONOMERES, ET SUBSTRATS ENDUITS DE CES POLYMERES
- L2 ANSWER 158 OF 192 USPATFULL on STN
TI High molecular weight polyimidoylamidine and a polytriazine derived
therefrom
- L2 ANSWER 159 OF 192 USPATFULL on STN
TI Abrasion-resistant and low friction coating compositions
- L2 ANSWER 160 OF 192 USPATFULL on STN
TI Fluorine-containing olefin, fluorine-containing polymer and
thermoplastic resin composition prepared by using said polymer
- L2 ANSWER 161 OF 192 USPATFULL on STN
TI Coatings containing fluorinated esters
- L2 ANSWER 162 OF 192 USPATFULL on STN
TI Polymers with crystallizable fluoropolymers
- L2 ANSWER 163 OF 192 USPATFULL on STN
TI Fluorine-containing polymer composition
- L2 ANSWER 164 OF 192 USPATFULL on STN
TI Flame retardant resin composition and flame retardant plastic optical
fiber cable using the same
- L2 ANSWER 165 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN Methanol-resistant fluorocarbon elastomers.
- L2 ANSWER 166 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN Polymer having a fluorine-containing end group and production of the
same.
- L2 ANSWER 167 OF 192 USPATFULL on STN
TI Process for protecting stony materials, marble, tiles, and cement from
atmospheric agents and pollutants
- L2 ANSWER 168 OF 192 USPATFULL on STN
TI Process for protecting and consolidating stony materials
- L2 ANSWER 169 OF 192 USPATFULL on STN
TI Novel fluorine-containing non-crystalline copolymer

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L2 ANSWER 170 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN
TI Copolymers of vinyl alcohol and fluorine containing acrylate monomers

L2 ANSWER 171 OF 192 USPATFULL on STN
TI Fluorinated tris-epoxides based on triphenyl methane

L2 ANSWER 172 OF 192 USPATFULL on STN
TI Separating agent with fluoroalkyl group

L2 ANSWER 173 OF 192 USPATFULL on STN
TI Fluorine-containing copolymers, a process for their preparation and their use

L2 ANSWER 174 OF 192 USPATFULL on STN
TI Fluorooxyalkyl vinyl ethers

L2 ANSWER 175 OF 192 USPATFULL on STN
TI Copolymer for fluorine-containing elastomer having excellent low temperature resistance and alcohol resistance

L2 ANSWER 176 OF 192 USPATFULL on STN
TI Fluorine-containing monomer and process for producing the same

L2 ANSWER 177 OF 192 USPATFULL on STN
TI Polymer having a fluorine-containing end group and production of the same

L2 ANSWER 178 OF 192 USPATFULL on STN
TI Fluorooxyalkyl vinyl ethers

L2 ANSWER 179 OF 192 USPATFULL on STN
TI Plastic optical fibers

L2 ANSWER 180 OF 192 USPATFULL on STN
TI Fluorinated vinyl ether copolymers having low glass transition temperatures

L2 ANSWER 181 OF 192 USPATFULL on STN
TI Copolymer for fluorine-containing elastomer having excellent low temperature resistance and alcohol resistance

L2 ANSWER 182 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 22
TI TELOMERIZATION OF TETRAFLUOROETHYLENE; WITH METHANOL

L2 ANSWER 183 OF 192 USPATFULL on STN
TI Liquid coating composition containing vinyl fluoride-hexafluoropropylene resin

L2 ANSWER 184 OF 192 JAPIO (C) 2004 JPO on STN
TI TELOMERIZATION OF TETRAFLUOROETHYLENE

L2 ANSWER 185 OF 192 USPATFULL on STN
TI Photo-sensitive etchant and method for forming metal image using same

L2 ANSWER 186 OF 192 USPATFULL on STN
TI Method for preparing vinyl fluoride-hexafluoro-propylene resin and method for producing a coating therefrom

L2 ANSWER 187 OF 192 USPATFULL on STN
TI Light transmitting fibers

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L2 ANSWER 188 OF 192 USPATFULL on STN
TI Tertiary amine sulfamic acid salts of polyfluoroalkoxyalkyl carbamates

L2 ANSWER 189 OF 192 USPATFULL on STN
TI PREPARATION OF OMEGA-HYDROPERFLUOROALKANES

L2 ANSWER 190 OF 192 JAPIO (C) 2004 JPO on STN
TI METHOD FOR PRODUCING FLUORINE-CONTAINING ALCOHOL

L2 ANSWER 191 OF 192 JAPIO (C) 2004 JPO on STN
TI METHOD FOR PRODUCING FLUOROALCOHOL

L2 ANSWER 192 OF 192 JAPIO (C) 2004 JPO on STN
TI PRODUCTION OF FLUOROALCOHOL

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6,49,50,58,71,72,78,79,80,81,85,86,87,89,110,111,112,121,125,133,137,153,182,184,190
,191,192 bib ab

L2 ANSWER 6 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN
AN 10584439 IFIPAT;IFIUDB;IFICDB
TI PROCESS FOR PRODUCING A FLUOROALKANOL
INF Tanabe; Koichiro, Ichihara-shi, JP
Tanaka; Hidemi, Ichihara-shi, JP
Toma; Tohihiko, Ichihara-shi, JP
Wada; Akihiro, Ichihara-shi, JP
Yamagishi; Nobuyuki, Ichihara-shi, JP
IN Tanabe Koichiro (JP); Tanaka Hidemi (JP); Toma Tohihiko (JP); Wada
Akihiro (JP); Yamagishi Nobuyuki (JP)
PAF ASAHI GLASS COMPANY LIMITED, TOKYO, JP
PA Asahi Glass Co Ltd JP (5608)
AG OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,
ALEXANDRIA, VA, 22314, US
PI US 2004091661 A9 20040513
AI US 2001-28827 20011228
RLI WO 2000-JP4248 20000628 CONTINUATION
PRAI JP 1999-185701 19990630
FI US 2004091661 20040513
DT Utility; Patent Application - Corrected Publication
FS CHEMICAL
APPLICATION

CLMN 8

AB A process for producing a fluoroalkanol of high purity
containing little evaporation residue, which can be industrially easily
carried out with high selectivity, is provided. In the process, a radical
initiator and CF₂.dbd. CFR₃ (formula 3) are continuously added
to CHR₁R₂ OH (Formula 2) to react them to form H (CFR₃CF₂)_n CR₁R₂ OH
(formula 1). In the formulae, n is an integer of from 1 to 4, each of R₁
and R₂ is a hydrogen atom or a C1-3 alkyl group, and R₃ is a fluorine
atom or a C1-4 perfluoroalkyl group.

L2 ANSWER 49 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1325900 EUROPATFULL ED 20030714 EW 200328 FS OS
TIEN PROCESS FOR PRODUCING FLUOROALKANOL.
TIDE VERFAHREN ZUR HERSTELLUNG VON FLUOROALKANOL.
TIFR PROCEDE DE PRODUCTION DE FLUOROALCANOL.
IN TOHMA, Toshihiko, 10, Goikaigan, Ichihara-shi, Chiba 290-8566, JP;

WADA, Akihiro, 10, Goikaigan, Ichihara-shi, Chiba 290-8566, JP
 PA ASAHI GLASS COMPANY LTD., 12-1, Yurakucho 1-chome, Chiyoda-ku, Tokyo
 100-8405, JP
 PAN 242775
 AG Mueller-Bore & Partner Patentanwaelte, Grafinger Strasse 2, 81671
 Muenchen, DE
 AGN 100651
 OS MEPA2003053 EP 1325900 A1 0008
 SO Wila-EPZ-2003-H28-T1a
 DT Patent
 LA Anmeldung in Japanisch; Veroeffentlichung in Englisch;
 Verfahren in Englisch
 DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;
 R IT; R LI; R LU; R MC; R NL; R PT; R SE; R TR; R AL; R LT; R LV; R MK;
 R RO; R SI
 PIT EPA1 EUROPAEISCHE PATENTANMELDUNG (Internationale Anmeldung)
 PI EP 1325900 A1 20030709
 OD 20030709
 AI EP 2001-963450 20010905
 PRAI JP 2000-2000273711 20000908
 RLI WO 01-JP7711 010905 INTAKZ
 WO 02020444 020314 INTPNR
 ABEN A process for producing a fluoroalkanol which can easily be
 industrially practiced with high selectivity, is provided.

CHR.sup1.R.sup2.OH, a radical initiator and CF.sub2.=CFR.supf.
 are continuously supplied and reacted at from 105 to 135°C, and
 H-(R.supf.CFCF.sub2.) .subn.-CR.sup1.R.sup2.-OH formed, is continuously
 discharged. Here, each of R.sup1. and R.sup2. is a hydrogen atom or a
 C.sub1-3. alkyl group, R.supf. is a fluorine atom or a C.sub1-4.
 polyfluoroalkyl group, and n is an integer of from 1 to 4.

L2 ANSWER 50 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1312597 EUROPATFULL ED 20030527 EW 200321 FS OS
 TIEN PROCESS FOR PRODUCING FLUORINATED ALCOHOL.
 TIDE VERFAHREN ZUR HERSTELLUNG EINES FLUORIERTEN ALKOHOLS.
 TIFR PROCEDE POUR PRODUIRE UN ALCOOL FLUORE.
 IN OKAMOTO, Hidekazu c/o Asahi Glass Company, Limited, 1150, Hazawa-cho,
 Kanagawa-ku, Yokohama-shi, Kanagawa 221-8755, JP
 PA ASAHI GLASS COMPANY LTD., 12-1, Yurakucho 1-chome, Chiyoda-ku, Tokyo
 100-8405, JP
 PAN 242775
 AG Mueller-Bore & Partner Patentanwaelte, Grafinger Strasse 2, 81671
 Muenchen, DE
 AGN 100651
 OS MEPA2003040 EP 1312597 A1 0009
 SO Wila-EPZ-2003-H21-T1a
 DT Patent
 LA Anmeldung in Japanisch; Veroeffentlichung in Englisch;
 Verfahren in Englisch
 DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;
 R IT; R LI; R LU; R MC; R NL; R PT; R SE; R TR; R AL; R LT; R LV; R MK;
 R RO; R SI
 PIT EPA1 EUROPAEISCHE PATENTANMELDUNG (Internationale Anmeldung)
 PI EP 1312597 A1 20030521
 OD 20030521
 AI EP 2001-958465 20010824
 PRAI JP 2000-2000254433 20000824

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RLI WO 01-JP7257 010824 INTAKZ
WO 02016295 020228 INTPNR
ABEN A process for producing a high-purity fluorinated alcohol in a good purification yield, is provided.

In a process for producing a fluorinated alcohol, which comprises reacting methanol with tetrafluoroethylene or hexafluoropropylene in the presence of an alkyl peroxide, the reaction liquid after completion of the reaction is distilled in the presence of water and HF to separate it into a fraction containing an alcohol derived from the alkyl peroxide and a bottom liquid containing the fluorinated alcohol, and then, the bottom liquid is purified to recover the fluorinated alcohol.
<image>

L2 ANSWER 58 OF 192 INPADOC COPYRIGHT 2004 EPO on STN

LEVEL 1

AN 203246102 INPADOC ED 20030506 EW 200318 UP 20031114 UW 200346
TI METHOD OF SYNTHESIS OF FLUOROALCOHOL, COMPOSITE COMPRISING FLUOROALCOHOL, ITS APPLICATION AS DYE SOLVENT, OPTICAL DISK WITH RECORDING LAYER BASED ON FLUOROALCOHOL.
IN SIZAVA TORU; TAKAKI SODZI; JASUKHARA TAKASI; KOJAMA JASUNORI
INS SIZAVA TORU; TAKAKI SODZI; JASUKHARA TAKASI; KOJAMA JASUNORI
INA JP; JP; JP; JP
PA DAIKIN INDUSTRIES, LTD.
PAS DAIKIN IND LTD
PAA JP
TL English
DT Patent
PIT RUC2 PATENT (SECOND PUBLICATION)
PI RU 2198160 C2 20030210
AI RU 1999-127444 A 19991227
PRAI JP 1998-373972 A 19981228 (EDPR 20000131)
JP 1999-48446 A 19990225 (EDPR 20000131)
AB FIELD: organic chemistry, chemical technology. SUBSTANCE: invention relates to method of synthesis of fluoroalcohol of the formula (I): $H(CFR_1CF_2)_nCH_2OH$ where R_1 means F or CF_3 when $n = 1$; and R_1 means F when $n = 2$. Method involves interaction of methanol with tetrafluoroethylene or hexafluoropropylene in the presence of source of free radicals. Synthesized reaction mixture is subjected for distillation either in the presence of a base or after contact of indicated mixture with a base. Fluoroalcohol of the formula (I) obtained by distillation has residue after evaporation 50 m.D., not above. Peroxide initiating reaction agent, UV-radiation or heating are used as the source of free radicals. Composite presents fluoroalcohol of the formula (I) with residue after evaporation 50 m.D., not above. Composite is used as dye solvent in production of carrier of information recording for laser recording and/or reading. Using fluoroalcohol of the formula (I) optical disk for laser recording and/or reading is made. Invention provides synthesis of fluoroalcohol that is useful for making laser recording and/or reading carrier. EFFECT: improved method of synthesis. 20 cl, 9 tbl, 2 dwg

L2 ANSWER 71 OF 192 USPATFULL on STN

AN 2003:226639 USPATFULL
TI Process for producing a fluoroalkanol
IN Tohma, Toshihiko, Ichihara-shi, JAPAN
Wada, Akihiro, Ichihara-shi, JAPAN
PA ASAHI GLASS COMPANY LIMITED, Chiyoda-ku, JAPAN (non-U.S. corporation)

10/028,827

PI US 2003158452 A1 20030821
AI US 2003-383688 A1 20030310 (10)
RLI Continuation of Ser. No. WO 2001-JP7711, filed on 5 Sep 2001, UNKNOWN
PRAI JP 2000-273711 20000908
DT Utility
FS APPLICATION
LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,
ALEXANDRIA, VA, 22314
CLMN Number of Claims: 9
ECL Exemplary Claim: 1
DRWN 1 Drawing Page(s)
LN.CNT 369

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for producing a fluoroalkanol which can easily be industrially practiced with high selectivity, is provided.

CHR.sup.1R.sup.2OH, a radical initiator and CF.sub.2.dbd.CFR.sup.f are continuously supplied and reacted at from 105 to 135° C., and H--(R.sup.fCFCF.sub.2).sub.n--CR.sup.1R.sup.2--OH formed, is continuously discharged. Here, each of R.sup.1 and R.sup.2 is a hydrogen atom or a C.sub.1-3 alkyl group, R.sup.f is a fluorine atom or a C.sub.1-4 polyfluoroalkyl group, and n is an integer of from 1 to 4.

L2 ANSWER 72 OF 192 USPATFULL on STN
AN 2003:214669 USPATFULL
TI Process for producing a fluorinated alcohol
IN Okamoto, Hidekazu, Yokohama-shi, JAPAN
PA ASAHI GLASS COMPANY LIMITED, Tokyo, JAPAN (non-U.S. corporation)
PI US 2003149312 A1 20030807
AI US 2003-370507 A1 20030224 (10)
RLI Continuation of Ser. No. WO 2001-JP7257, filed on 24 Aug 2001, UNKNOWN
PRAI JP 2000-254433 20000824
DT Utility
FS APPLICATION
LREP OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940 DUKE STREET,
ALEXANDRIA, VA, 22314
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 455

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for producing a high-purity fluorinated alcohol in a good purification yield, is provided.

In a process for producing a fluorinated alcohol, which comprises reacting methanol with tetrafluoroethylene or hexafluoropropylene in the presence of an alkyl peroxide, the reaction liquid after completion of the reaction is distilled in the presence of water and HF to separate it into a fraction containing an alcohol derived from the alkyl peroxide and a bottom liquid containing the fluorinated alcohol, and then, the bottom liquid is purified to recover the fluorinated alcohol.

L2 ANSWER 78 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8
AN 2002:171828 CAPLUS
DN 136:233886
TI Process for producing fluoroalcohol
IN Yoshizawa, Toru; Takaki, Shouji
PA Daikin Industries, Ltd., Japan
SO PCT Int. Appl., 16 pp.
CODEN: PIXXD2

10/028,827

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2002018308	A1	20020307	WO 2001-JP6074	20010713
	W: CN, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	JP 2002069021	A2	20020308	JP 2000-257853	20000828
PRAI	JP 2000-257853	A	20000828		

AB This document discloses a process for producing a fluoroalc. represented by the general formula $H(CF_2CF_2)_nCH_2OH$ (I) (wherein n is 1 or 2) from tetrafluoroethylene and methanol as starting materials in the presence of an acid acceptor and an organic peroxide which generates tert-butanol upon decomposition; said process comprises the steps of : (i) reacting tetrafluoroethylene with methanol; (ii) removing both the product of the reaction of the acid acceptor and the acid acceptor remaining unreacted from the crude reaction product obtained; and (iii) heating the crude reaction product treated in the step (ii) under acidic conditions to sep. out the fluoroalc. represented by the general formula I. Tetrafluoropropanol is a solvent used in the production of recording media. Tetrafluoropropanol (purity $\geq 99.9\%$) was produced by the title process.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 79 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 9
AN 2002:129094 CAPLUS
DN 136:167088
TI Preparation of fluoroalkanols by telomerization
IN Ichihara, Kazuyoshi; Homoto, Yukio; Baba, Noriaki
PA Daikin Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2002053505	A2	20020219	JP 2000-244238	20000811
	WO 2002014249	A1	20020221	WO 2001-JP6656	20010802
	W: CN, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
PRAI	JP 2000-244238	A	20000811		

OS CASREACT 136:167088

AB Fluoroalkanols $H(CF_2CF_2)_nCH_2OH$ (mainly containing n = 1 products) are prepared by telomerization of tetrafluoroethylene (TFE) with MeOH at a partial pressure ratio of $<1/5$ under control of total reaction pressure and temperature conditions to suppress formation of $n \geq 2$ products. TFE was treated with MeOH in an autoclave at a TFE/MeOH partial pressure ratio of $1/15$ in the presence of $CaCO_3$ and di(tert-Bu) peroxide to give a telomer (n = 1, Mn 143.0) in MeOH conversion 10.3 mol% and selectivity 93.7%.

L2 ANSWER 80 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 10
AN 10142492 IFIPAT;IFIUDB;IFICDB
TI PROCESS FOR PRODUCING A FLUOROALKANOL; REACTING ALKANOL WITH A PERFLUOROOLEFIN IN PRESENCE OF RADICAL INITIATOR TO PRODUCE FLUOROALKANOL
INF Tanabe; Koichiro, Ichihara-shi, JP

Tanaka; Hidemi, Ichihara-shi, JP
Toma; Tohihiko, Ichihara-shi, JP
Wada; Akihiro, Ichihara-shi, JP
Yamagishi; Nobuyuki, Ichihara-shi, JP
IN Tanabe Koichiro (JP); Tanaka Hidemi (JP); Toma Tohihiko (JP); Wada
Akihiro (JP); Yamagishi Nobuyuki (JP)
PAF ASAHI GLASS COMPANY LIMITED, TOKYO, JP
PA Asahi Glass Co Ltd JP (5608)
AG OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC FOURTH FLOOR, 1755 JEFFERSON
DAVIS HIGHWAY, ARLINGTON, VA, 22202, US
PI US 2002086131 A1 20020704
AI US 2001-28827 20011228
RLI WO 2000-JP4248 20000628 CONTINUATION UNKNOWN
PRAI JP 1999-185701 19990630
FI US 2002086131 20020704
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 8
AB A process for producing a fluoroalkanol of high purity
containing little evaporation residue, which can be industrially easily
carried out with high selectivity, is provided. In the process, a radial
initiator and CF₂ horizontalline CFR₃ (formula 3) are
continuously added to CHR₁R₂-OH (Formula 2) to react them to form
H-(CFR₃CF₂)_n-CR₁R₂-OH (formula 1). In the formulae, n is an integer of
from 1 to 4, each of R₁ and R₂ is a hydrogen atom or a C1-3 alkyl group,
and R₃ is a fluorine atom or a C1-4 perfluoroalkyl group.

L2 ANSWER 81 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 11
AN 03687483 IFIPAT;IFIUDB;IFICDB
TI PROCESS FOR PRODUCTION OF FLUOROALCOHOL; REACTING
METHANOL WITH TETRAFLUOROETHYLENE OR
HEXAFLUOROPROPYLENE
INF Takaki; Shoji, Settsu, JP
Yasuhara; Takashi, Settsu, JP
Yokoyama; Yasunori, Settsu, JP
Yoshizawa; Toru, Settsu, JP
IN Takaki Shoji (JP); Yasuhara Takashi (JP); Yokoyama Yasunori (JP);
Yoshizawa Toru (JP)
PAF Daikin Industries, Ltd., Osaka-fu, JP
PA Daikin Kogyo Co Ltd JP (1197)
EXNAM O'Sullivan, Peter
AG Larson & Taylor PLC
PI US 6392105 B1 20020521
AI US 1999-388384 19990901
XPD 1 Sep 2019
PRAI JP 1998-373972 19981228
JP 1999-48446 19990225
FI US 6392105 20020521
DT Utility
FS CHEMICAL
GRANTED
NTE This Patent is subject to a Terminal Disclaimer.
MRN 010326 MFN: 0773
010583 0589
CLMN 20
AB The invention provide a method for producing a fluoroalcohol of
the following formula (1): H(CFR₁CF₂)_nCH₂OH (1) (wherein R₁
represents F or CF₃, when n=1; R₁ represents F, when n=2) comprising
reacting methanol with tetrafluoroethylene or
hexafluoropropylene in the presence of a free radical source, wherein the
reaction mixture is subjected to distillation either in the presence of a

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base or after contact of said reaction mixture with a base.

L2 ANSWER 85 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:185043 CAPLUS
DN 136:249368
TI Process for producing fluoroalkanol
IN Tohma, Toshihiko; Wada, Akihiro
PA Asahi Glass Company, Limited, Japan
SO PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002020444	A1	20020314	WO 2001-JP7711	20010905
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	JP 2002088001	A2	20020327	JP 2000-273711	20000908
	AU 2001084442	A5	20020322	AU 2001-84442	20010905
	EP 1325900	A1	20030709	EP 2001-963450	20010905
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
	US 2003158452	A1	20030821	US 2003-383688	20030310
PRAI	JP 2000-273711	A	20000908		
	WO 2001-JP7711	W	20010905		

OS MARPAT 136:249368

AB The title process comprises continuously feeding CHR1R2OH (R1 and R2 each is hydrogen or C1-3 alkyl), a free-radical initiator, and CF2:CFRf (Rf is fluorine or C1-4 polyfluoroalkyl) to a reactor at 105° to 135° and continuously discharging the product H(RfCF2)nCR1R2OH (wherein R1 and R2 each is hydrogen or C1-3 alkyl; Rf is fluorine or C1-4 polyfluoroalkyl; and n is an integer of 1 to 4). Fluoroalkanols are useful as solvents for optical recording materials and as intermediates for surfactants, photog. development materials, etc. The title process for fluoroalkanol production can be industrially carried out with high selectivity. 2,2,3,3-Tetrafluoro-1-propanol (I) was prepared by the title process with 93% selectivity for I.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 86 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1191009 EUROPATFULL ED 20020404 EW 200213 FS OS
TIEN PROCESS FOR PRODUCING FLUOROALKANOL.
TIDE VERFAHREN ZUR HERSTELLUNG VON FLUORALKANOL.
TIFR PROCEDE DE PRODUCTION DE FLUOROALCANOL.
IN WADA, Akihiro, Asahi Glass Company, Limited, 10, Goikaigan, Ichihara-shi, Chiba 290-0058, JP;
TANAKA, Hidemi, Asahi Glass Company, Limited, 10, Goikaigan, Ichihara-shi, Chiba 290-0058, JP;
TANABE, Koichiro, Asahi Glass Company, Limited, 10, Goikaigan, Ichihara-shi, Chiba 290-0058, JP;

YAMAGISHI, Nobuyuki, Asahi Glass Company, Limited, 10, Goikaigan,
 Ichihara-shi, Chiba 290-0058, JP;
 TOMA, Toshihiko, Asahi Glass Company, Limited, 10, Goikaigan,
 Ichihara-shi, Chiba 290-0058, JP
 PA ASAHI GLASS COMPANY LTD., 12-1, Yurakucho 1-chome, Chiyoda-ku, Tokyo
 100-8405, JP
 PAN 242775
 AG Mueller-Bore & Partner Patentanwaelte, Grafinger Strasse 2, 81671
 Muenchen, DE
 AGN 100651
 OS BEPA2002027 EP 1191009 A1 0006
 SO Wila-EPZ-2002-H13-T1a
 DT Patent
 LA Anmeldung in Japanisch; Veroeffentlichung in Englisch;
 Verfahren in Englisch
 DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;
 R IT; R LI; R LU; R MC; R NL; R PT; R SE
 PIT EPA1 EUROPABISCHE PATENTANMELDUNG (Internationale Anmeldung)
 PI EP 1191009 A1 20020327
 OD 20020327
 AI EP 2000-942366 20000628
 PRAI JP 1999-185701 19990630
 RLI WO 00-JP4248 000628 INTAKZ
 WO 0102329 010111 INTPNR
 ABEN A process for producing a fluoroalkanol of high purity
 containing little evaporation residue, which can be industrially easily
 carried out with high selectivity, is provided. In the process, a radial
 initiator and CF.sub2.=CFR.sup3. (formula 3) are continuously
 added to CHR.sup1.R.sup2.-OH (Formula 2) to react them to form
 H-(CFR.sup3.CF.sub2.)subn.-CR.sup1.R.sup2.-OH (formula 1). In the
 formulae, n is an integer of from 1 to 4, each of R.sup1. and R.sup2. is
 a hydrogen atom or a C.sub1-3. alkyl group, and R.sup3. is a fluorine
 atom or a C.sub1-4. perfluoroalkyl group.

L2 ANSWER 87 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1179521 EUROPATFULL ED 20020225 EW 200207 FS OS
 TIEN Process for production of fluoroalcohol.
 TIDE Verfahren zur Herstellung von Fluoralkoholen.
 TIFR Procède pour la preparation d'alcools fluores.
 IN Yoshizawa, Toru, Yodogawa Seisakusho, Daikin Industries, Ltd., 1-1,
 Nishihitotsuya, Settsu-shi, Osaka-fu, JP;
 Takaki, Shoji, Yodogawa Seisakusho, Daikin Industries, Ltd., 1-1,
 Nishihitotsuya, Settsu-shi, Osaka-fu, JP;
 Yasuhara, Takashi, Yodogawa Seisakusho, Daikin Industries, Ltd., 1-1,
 Nishihitotsuya, Settsu-shi, Osaka-fu, JP;
 Yokoyama, Yasunori, Yodogawa Seisakusho, Daikin Industries, Ltd., 1-1,
 Nishihitotsuya, Settsu-shi, Osaka-fu, JP
 PA DAIKIN INDUSTRIES, LIMITED, Umeda Center Building, 4-12, Nakazaki-nishi
 2-chome, Kita-ku, Osaka-shi, Osaka-fu, JP
 PAN 605934
 AG HOFFMANN - EITL, Patent- und Rechtsanwaelte Arabellastrasse 4, 81925
 Muenchen, DE
 AGN 101511
 OS BEPA2002015 EP 1179521 A1 0007
 SO Wila-EPZ-2002-H07-T1a
 DT Patent
 LA Anmeldung in Englisch; Veroeffentlichung in Englisch
 DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;

10/028,827

R IT; R LI; R LU; R MC; R NL; R PT; R SE; R RO
PIT EPA1 EUROPÄISCHE PATENTANMELDUNG
PI EP 1179521 A1 20020213
OD 20020213
AI EP 2001-124226 19990908
PRAI JP 1998-373972 19981228
JP 1999-48446 19990225
RLI EP 967193 DIV
ABEN The invention provide a method for producing a fluoroalcohol
of the following formula (1): <chemical formula> (wherein R.sup1.
represents F or CF.sub3., when n=1; R.sup1. represents F, when n=2)
comprising reacting methanol with tetrafluoroethylene
or hexafluoropropylene in the presence of a free radical source, wherein
the reaction mixture is subjected to distillation either in the presence
of a base or after contact of said reaction mixture with a base.

L2 ANSWER 89 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 967193 EUROPATFULL ED 20000116 EW 199952 FS OS
TIEN Process for production of fluoroalcohol and its use for the
manufacture of an information recording medium.
TIDE Verfahren zur Herstellung von Fluoralkohol und seine Verwendung zur
Herstellung einer Informationsspeicherung.
TIFR Procède pour la production de fluoroalcool et son utilisation pour la
fabrication d'un médium d'enregistrement d'information.
IN Yoshizawa, Toru, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1,
Nishihitotsuya, Settsu-shi, Osaka-fu, JP;
Takaki, Shoji, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1,
Nishihitotsuya, Settsu-shi, Osaka-fu, JP;
Yasuhara, Takashi, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1,
Nishihitotsuya, Settsu-shi, Osaka-fu, JP;
Yokoyama, Yasunori, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1,
Nishihitotsuya, Settsu-shi, Osaka-fu, JP
PA DAIKIN INDUSTRIES, LIMITED, Umeda Center Building, 4-12, Nakazaki-nishi
2-chome, Kita-ku, Osaka-shi, Osaka-fu, JP
PAN 605934
AG HOFFMANN - EITLE, Patent- und Rechtsanwalte Arabellastrasse 4, 81925
Muenchen, DE
AGN 101511
OS ESP1999096 EP 0967193 A2 991229
SO Wila-EPZ-1999-H52-T1a
DT Patent
LA Anmeldung in Englisch; Veroeffentlichung in Englisch
DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;
R IT; R LI; R LU; R MC; R NL; R PT; R SE; R AL; R LT; R LV; R MK; R RO;
R SI
PIT EPA2 EUROPÄISCHE PATENTANMELDUNG
PI EP 967193 A2 19991229
OD 19991229
AI EP 1999-117436 19990908
PRAI JP 1998-373972 19981228
JP 1999-48446 19990225

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

AN 967193 EUROPATFULL UP 20021203 EW 200248 FS PS
TIEN Process for production of fluoroalcohol and its use for the
manufacture of an information recording medium.
TIDE Verfahren zur Herstellung von Fluoralkohol und seine Verwendung zur

10/028,827

Herstellung eines Mediums zur Informationsspeicherung.
TIFR Procédé pour la production de fluoroalcool et son utilisation pour la fabrication d'un médium d'enregistrement d'information.
IN Yoshizawa, Toru, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1, Nishihitotsuya, Settsu-shi, Osaka-fu, JP; Takaki, Shoji, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1, Nishihitotsuya, Settsu-shi, Osaka-fu, JP; Yasuhara, Takashi, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1, Nishihitotsuya, Settsu-shi, Osaka-fu, JP; Yokoyama, Yasunori, Yodogawa Seisakusho, Daikin, Ind. Ltd., 1-1, Nishihitotsuya, Settsu-shi, Osaka-fu, JP
PA DAIKIN INDUSTRIES, LIMITED, Umeda Center Building, 4-12, Nakazaki-nishi 2-chome, Kita-ku, Osaka-shi, Osaka-fu, JP
PAN 605934
AG HOFFMANN - EITLE, Patent- und Rechtsanwaelte Arabellastrasse 4, 81925 Muenchen, DE
AGN 101511
OS BEPB2002086 EP 0967193 B1 0009
SO Wila-EPS-2002-H48-T1
DT Patent
LA Anmeldung in Englisch; Veroeffentlichung in Englisch
DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R SE; R RO
PIT EPB1 EUROPÄISCHE PATENTSCHRIFT
PI EP 967193 B1 20021127
OD 19991229
AI EP 1999-117436 19990908
PRAI JP 1998-373972 19981228
JP 1999-48446 19990225
REP EP 398154 A EP 968989 A
US 4346250 A
REN CHEMICAL ABSTRACTS, vol. 109, no. 23, 5 December 1988 (1988-12-05) Columbus, Ohio, US; abstract no. 210518, PALETA O ET AL: "Preparation of fluorinated alkanols" XP002132041 & CS244792 B (CZECH.) CHEMICAL ABSTRACTS, vol. 114, no. 21, 27 May 1991 (1991-05-27) Columbus, Ohio, US; abstract no. 206556, PALETA O ET AL: "Production of hexafluoroalkanols from hexafluoropropene and aliphatic alcohols" XP002132042 & CS268247 B (CZECH.)
ABEN The invention provide a method for producing a fluoroalcohol of the following formula (1): <chemical formula> (wherein R.sup1. represents F or CF.sub3., when n=1; R.sup1. represents F, when n=2) comprising reacting methanol with tetrafluoroethylene or hexafluoropropylene in the presence of a free radical source, wherein the reaction mixture is subjected to distillation either in the presence of a base or after contact of said reaction mixture with a base.

L2 ANSWER 110 OF 192 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN
AN 2002-304049 [34] WPIDS
DNC C2002-088400
TI Process for producing fluoroalkanols, for use as intermediate materials and as dissolving agent for dyes, comprises a telomerization of tetrafluoroethylene and methanol.
DC E16
IN BABA, N; HOMOTO, Y; ICHIHARA, K
PA (DAIK) DAIKIN KOGYO KK; (DAIK) DAIKIN IND LTD
CYC 22
PI WO 2002014249 A1 20020221 (200234)* JA 10
RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
W: CN US
JP 2002053505 A 20020219 (200234) 4
CN 1441764 A 20030910 (200380)

10/028,827

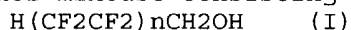
ADT WO 2002014249 A1 WO 2001-JP6656 20010802; JP 2002053505 A JP 2000-244238
20000811; CN 1441764 A CN 2001-812661 20010802

PRAI JP 2000-244238 20000811

AB WO 200214249 A UPAB: 20020528

NOVELTY - A process for producing a fluoroalkanol having general formula (I) involves telomerization of tetrafluoroethylene and methanol under preset temperature and pressure conditions.

DETAILED DESCRIPTION - A process for producing a fluoroalkanol having general formula (I) involves telomerization of tetrafluoroethylene and methanol under conditions such that the ratio of the partial pressure of tetrafluoroethylene to that of methanol is less than 1/5, and such that total the pressure and the temperature of reactions lie within that range surrounded by points A, B, C and D as shown in Fig.1, with the result that an alcohol mixture consisting mainly of the reaction product (I):



n = 1, while reaction products having n = 2 or greater in formula (I) are excluded.

USE - The fluoroalkanol (I) is for use as a dissolving agent for dyes and as an intermediate material.

ADVANTAGE - The process provides selectively a fluoroalkanol having n = 1 in (I) with a high production yield.

DESCRIPTION OF DRAWING(S) - The drawing shows the relation of the reaction pressure to the reaction temperature. Curve AB: vapor pressure of CH₃OH Point A = 70 deg. C/0.25 kg/cm²; Point B = 150 deg. C/13.1 kg/cm²; Point C = 150 deg. C/16.13 kg/cm²; Point D = 70 deg. C/3.25 kg/cm².
Dwg.1/1

L2 ANSWER 111 OF 192 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 15

AN 2001:31437 CAPLUS

DN 134:85951

TI Process for producing fluoroalkanol

IN Wada, Akihiro; Tanaka, Hidemi; Tanabe, Koichiro; Yamagishi, Nobuyuki; Toma, Toshihiko

PA Asahi Glass Company, Limited, Japan

SO PCT Int. Appl., 11 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	WO 2001002329	A1	20010111	WO 2000-JP4248	20000628
	W: CN, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1191009	A1	20020327	EP 2000-942366	20000628
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	US 2002086131	A1	20020704	US 2001-28827	20011228
	US 2004091661	A9	20040513		
PRAI	JP 1999-185701	A	19990630		
	WO 2000-JP4248	W	20000628		

OS CASREACT 134:85951; MARPAT 134:85951

AB $\text{H}(\text{CFR}_3\text{CF}_2)_n\text{NCR}_1\text{R}_2\text{OH}$ [R₁, R₂ = H, C₁-3 alkyl; R₃ = F, C₁-4 perfluoroalkyl; n = integer of 1-4], useful as solvents having reduced evaporation residue for dye solution in making an optical recording layer (no data), are prepared in high purity and selectivity by continuous addition of CF₂=CFR₃ to CHR₁R₂OH in the presence of a radical initiator. C₂F₄ was continuously fed to a solution of MeOH containing (tert-Bu)₂O₂ at a fixed rate and 125° to give CHF₂CF₂CH₂OH with 96% selectivity and 22% MeOH conversion, vs. 95% and 6.8%, resp., with a reference process.

10/028,827

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 112 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 16

AN 03461709 IFIPAT;IFIUDB;IFICDB

TI PROCESS FOR PRODUCING FLUOROALCOHOL; REACTION OF
METHANOL WITH TETRAFLUOROETHYLENE OR HEXAFLUOROPROPYLENE
IN THE PRESENCE OF INITIATOR

INF Katsube; Toshiyuki, Settsu, JP

Ogura; Eiji, Settsu, JP

Takaki; Shoji, Settsu, JP

Yamaguchi; Fumihiko, Settsu, JP

Yoshizawa; Toru, Settsu, JP

IN Katsube Toshiyuki (JP); Ogura Eiji (JP); Takaki Shoji (JP); Yamaguchi
Fumihiko (JP); Yoshizawa Toru (JP)

PAF Daikin Industries, Ltd., Osaka-fu, JP

PA Daikin Kogyo Co Ltd JP (1197)

EXNAM O'Sullivan, Peter

AG Larson & Taylor PLC

PI US 6187969 B1 20010213

AI US 1999-394679 19990913

XPD 13 Sep 2019

PRAI JP 1999-68932 19990315

FI US 6187969 20010213

DT Utility

FS CHEMICAL

GRANTED

MRN 010258 MFN: 0598

CLMN 3

AB A process for producing a fluoroalcohol of the following
formula (1) $H(CFR_1CF_2)_nCH_2OH$ (1) ($n=1$ or 2 , wherein R_1 represents F
or CF_3 when $n=1$; R_1 represents F when $n=2$) comprising reacting
methanol with tetrafluoroethylene or
hexafluoropropylene in the presence of an initiator wherein the
fluoroalcohol of formula (1) is distilled after decomposing the
remaining initiator contained in the reaction mixture.

L2 ANSWER 121 OF 192 INPADOC COPYRIGHT 2004 EPO on STN

LEVEL 1

AN 170552406 INPADOC ED 20020325 EW 200212 UP 20020325 UW 200212

TI METHOD OF PREPARING FLUOROALCOHOL.

IN JAMAGUTI FUMIKHIKO; TAKAKI SODZI; JOSIZAVA TORU; OGURA EJDZI; KATSUBE
TOSIJUKI

INS JAMAGUTI FUMIKHIKO; TAKAKI SODZI; JOSIZAVA TORU; OGURA EJDZI; KATSUBE
TOSIJUKI

INA JP; JP; JP; JP; JP

PA DAIKIN INDASTRIZ, LTD.

PAS DAIKIN IND LTD

PAA JP

TL English

DT Patent

PIT RUC1 PATENT

PI RU 2163230 C1 20010220

AI RU 1999-119910 A 19990917

PRAI JP 1999-68932 A 19990315 (EDPR 20000202)

AB chemical industry. SUBSTANCE: described is method of preparing
fluoroalcohol of formula I: $H(CFR_1CF_2)_nCH_2OH$, (1) wherein n is 1
or 2 ; R_1 is F or CF_3 , when n is 1 ; R_1 is F when n is 2 by reacting
methanol with tetrafluoroethylene or
hexafluoropropylene in the presence of initiator.
Fluoroalcohol of formula I is distilled off after decomposition

of residual initiator contained in reaction mixture. The resulting pure fluoroalcohol is useful in using information recording means. EFFECT: more efficient preparation method. 3 cl

L2 ANSWER 125 OF 192 USPATFULL on STN
 AN 2001:163368 USPATFULL
 TI Method for manufacturing fluoroalcohol
 IN Takaki, Shoji, Settsu, Japan
 Yoshizawa, Toru, Settsu, Japan
 PA Daikin Industries, Ltd., Japan (non-U.S. corporation)
 PI US 6294704 B1 20010925
 AI US 1999-394672 19990913 (9)
 PRAI JP 1999-67714 19990315
 DT Utility
 FS GRANTED
 EXNAM Primary Examiner: O'Sullivan, Peter
 LREP Larson & Taylor, PLC
 CLMN Number of Claims: 2
 ECL Exemplary Claim: 1
 DRWN 3 Drawing Figure(s); 1 Drawing Page(s)
 LN.CNT 289

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a method for manufacturing a fluoroalcohol represented by formula (1)

H(CFR.sup.1 CF.sub.2).sub.n CH.sub.2 OH (1)

(wherein R.sup.1 represents F or CF.sub.3, when n=1; R.sup.1 represents F, when n=2) by reacting methanol with tetrafluoroethylene or hexafluoropropylene in the presence of a free radical generator, wherein the method comprises the steps of: feeding a reaction mixture into a distillation column; distilling off methanol from the top of the distillation column; withdrawing a bottom fraction comprising the fluoroalcohol from the bottom of the distillation column; removing a fraction comprising water and HF from the distillation column by side cut; feeding methanol from the top of the distillation column back into a reactor for recycling; and purifying the bottom fraction to recover the fluoroalcohol represented by formula (1).

L2 ANSWER 133 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN DUPLICATE 21

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 968989 EUROPATFULL ED 20000213 EW 200001 FS OS
 TIEN Process for producing fluoroalcohol.
 TIDE Verfahren zur Herstellung von Fluoralkoholen.
 TIFR Procédé de préparation d'alcools fluores.
 IN Yamaguchi, Fumihiko, c/o Yodogawa Seisakushi, Daikin Industries, Ltd,
 1-1 Nishihitotsuya, Settsu-shi, Osaka-fu, JP;
 Takaki, Shoji, c/o Yodogawa Seisakushi, Daikin Industries, Ltd, 1-1
 Nishihitotsuya, Settsu-shi, Osaka-fu, JP;
 Yoshizawa, Toru, c/o Yodogawa Seisakushi, Daikin Industries, Ltd, 1-1
 Nishihitotsuya, Settsu-shi, Osaka-fu, JP;
 Ogura, Eiji, c/o Yodogawa Seisakushi, Daikin Industries, Ltd, 1-1
 Nishihitotsuya, Settsu-shi, Osaka-fu, JP;
 Katsube, Toshiyuki, c/o Yodogawa Seisakushi, Daikin Industries, Ltd, 1-1
 Nishihitotsuya, Settsu-shi, Osaka-fu, JP
 PA DAIKIN INDUSTRIES, LIMITED, Umeda Center Building, 4-12 Nakazaki-nishi
 2-chome, Kita-ku, Osaka-shi, Osaka-fu 530, JP
 PAN 605933
 AG HOFFMANN - EITLE, Patent- und Rechtsanwaelte Arabellastrasse 4, 81925

Muenchen, DE
 AGN 101511
 OS BEPA2000001 EP 0968989 A2 0006
 SO Wila-EPZ-2000-H01-T1a
 DT Patent
 LA Anmeldung in Englisch; Veroeffentlichung in Englisch
 DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;
 R IT; R LI; R LU; R MC; R NL; R PT; R SE; R AL; R LT; R LV; R MK; R RO;
 R SI
 PIT EPA2 EUROPÄISCHE PATENTANMELDUNG
 PI EP 968989 A2 20000105
 OD 20000105
 AI EP 1999-118062 19990923
 PRAI JP 1999-68932 19990315
 ABEN A process for producing a fluoroalcohol of the following
 formula (1) <chemical formula> (n=1 or 2, wherein R.sup1. represents F
 or CF.sub3. when n=1; R.sup1. represents F when n=2) comprising reacting
 methanol with tetrafluoroethylene or
 hexafluoropropylene in the presence of an initiator wherein
 the fluoroalcohol of formula (1) is distilled after
 decomposing the remaining initiator contained in the reaction
 mixture.

L2 ANSWER 137 OF 192 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 968990 EUROPATFULL ED 20000213 EW 200001 FS OS
 TIEN Method for manufacturing fluoroalcohol.
 TIDE Verfahren zur Herstellung von Fluoralkoholen.
 TIFR Procédé de préparation d'alcools fluores.
 IN Takaki, Shoji, c/o Yodogawa Seisakusho, Daikin Industries, Ltd., 1-1
 Nishihitotsuya, Settsu-shi, Osaka-fu, JP;
 Yoshizawa, Toru, c/o Yodogawa Seisakusho, Daikin Industries, Ltd., 1-1
 Nishihitotsuya, Settsu-shi, Osaka-fu, JP
 PA DAIKIN INDUSTRIES, LIMITED, Umeda Center Building, 4-12 Nakazaki-nishi
 2-chome, Kita-ku, Osaka-shi, Osaka-fu 530, JP
 PAN 605933
 AG HOFFMANN - EITLE, Patent- und Rechtsanwaelte Arabellastrasse 4, 81925
 Muenchen, DE
 AGN 101511
 OS BEPA2000001 EP 0968990 A2 0006
 SO Wila-EPZ-2000-H01-T1a
 DT Patent
 LA Anmeldung in Englisch; Veroeffentlichung in Englisch
 DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;
 R IT; R LI; R LU; R MC; R NL; R PT; R SE; R AL; R LT; R LV; R MK; R RO;
 R SI
 PIT EPA2 EUROPÄISCHE PATENTANMELDUNG
 PI EP 968990 A2 20000105
 OD 20000105
 AI EP 1999-118063 19990923
 PRAI JP 1999-67714 19990315
 ABEN The invention relates to a method for manufacturing a
 fluoroalcohol represented by formula (1) <chemical formula>
 (wherein R.sup1. represents F or CF.sub3., when n=1; R.sup1. represents
 F, when n=2) by reacting methanol with
 tetrafluoroethylene or hexafluoropropylene in the presence of a
 free radical generator, wherein the method comprises the steps of:
 feeding a reaction mixture into a distillation column; distilling off
 methanol from the top of the distillation column; withdrawing a

bottom fraction comprising the fluoroalcohol from the bottom of the distillation column; removing a fraction comprising water and HF from the distillation column by side cut; feeding methanol from the top of the distillation column back into a reactor for recycling; and purifying the bottom fraction to recover the fluoroalcohol represented by formula (1). <image> <image>

L2 ANSWER 153 OF 192 WPIDS COPYRIGHT 2004 THE THOMSON CORP on STN
 AN 2000-099357 [09] WPIDS
 CR 2002-407105 [44]
 DNN N2000-076720 DNC C2000-029016
 TI Preparation of fluoroalcohols for use as solvents in information recording media adapted for laser reading and/or writing.
 DC E16 L03 P75 P84 T03 W04
 IN TAKAKI, S; YASUHARA, T; YOKOYAMA, Y; YOSHIKAWA, T
 PA (DAIK) DAIKIN IND LTD; (DAIK) DAIKIN KOGYO KK
 CYC 36
 PI EP 967193 A2 19991229 (200009)* EN 6
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI
 JP 3029618 B1 20000404 (200022) 5
 AU 9944844 A 20000629 (200037)
 CZ 9903105 A3 20000712 (200040)
 CA 2282063 A1 20000628 (200045) EN
 AU 724446 B 20000921 (200050)
 BR 9904405 A 20000919 (200050)
 JP 2000247916 A 20000912 (200051) 6
 CN 1258669 A 20000705 (200052)
 NZ 337609 A 20000929 (200060)
 SG 76643 A1 20001121 (200067)
 KR 2000047569 A 20000725 (200115)
 US 6392105 B1 20020521 (200239)
 KR 2001112910 A 20011222 (200240)
 KR 330273 B 20020401 (200266)
 EP 967193 B1 20021127 (200279) EN
 R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT RO SE
 DE 69904117 E 20030109 (200312)
 RU 2198160 C2 20030210 (200324)
 ES 2186286 T3 20030501 (200341)
 KR 386834 B 20030609 (200367)
 CA 2282063 C 20031118 (200382) EN
 ADT EP 967193 A2 EP 1999-117436 19990908; JP 3029618 B1 JP 1999-48446
 19990225; AU 9944844 A AU 1999-44844 19990830; CZ 9903105 A3 CZ 1999-3105
 19990831; CA 2282063 A1 CA 1999-2282063 19990908; AU 724446 B AU
 1999-44844 19990830; BR 9904405 A BR 1999-4405 19990929; JP 2000247916 A
 JP 1999-48446 19990225; CN 1258669 A CN 1999-119085 19990914; NZ 337609 A
 NZ 1999-337609 19990902; SG 76643 A1 SG 1999-6653 19991228; KR 2000047569
 A KR 1999-47371 19991029; US 6392105 B1 US 1999-388384 19990901; KR
 2001112910 A KR 2001-77064 20011206; KR 330273 B KR 1999-47371 19991029;
 EP 967193 B1 EP 1999-117436 19990908, Related to EP 2001-124226 19990908;
 DE 69904117 E DE 1999-604117 19990908, EP 1999-117436 19990908; RU 2198160
 C2 RU 1999-127444 19991227; ES 2186286 T3 EP 1999-117436 19990908; KR
 386834 B Div ex KR 1999-47371 19991029, KR 2001-77064 20011206; CA 2282063
 C CA 1999-2282063 19990908
 FDT AU 724446 B Previous Publ. AU 9944844; KR 330273 B Previous Publ. KR
 2000047569; EP 967193 B1 Related to EP 1179521; DE 69904117 E Based on EP
 967193; ES 2186286 T3 Based on EP 967193; KR 386834 B Previous Publ. KR
 2001112910
 PRAI JP 1999-48446 19990225; JP 1998-373972 19981228
 AB EP 967193 A UPAB: 20031223
 NOVELTY - A fluoroalcohol is prepared by reacting

methanol with tetrafluoroethylene or hexafluoropropylene in the presence of a free radical source and distilling in the presence of base or after contact with base.

DETAILED DESCRIPTION - Preparation of a fluoroalcohol of formula (I) comprises reacting methanol with tetrafluoroethylene or hexafluoropropylene in the presence of a free radical source and distilling the reaction mixture, either in the presence of a base or after contacting with a base.

$H(CFR_1CF_2)_nCH_2OH$ (I)

$R_1 = F$ or CF_3 ; and

$n = 1$; or

$R_1 = F$; and

$n = 2$.

An INDEPENDENT CLAIM is included for fluoroalcohol (I) which has an evaporation residue of no more than 25 ppm.

USE - The fluoroalcohol (I) is useful as a component of recording layers in information recording media adapted for laser writing or reading (claimed). The recording medium may be an optical disk such as CD-R or DVD-R. The fluoroalcohol acts as a dye solvent.

ADVANTAGE - The process provides a product which has a very low content of impurities such as evaporation residue and UV-absorbing substances.

Dwg.0/0

L2 ANSWER 182 OF 192 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 22
 AN 01411167 IFIPAT;IFIUDB;IFICDB
 TI TELOMERIZATION OF TETRAFLUOROETHYLENE; WITH METHANOL
 INF Fujii, Tuneo, Osaka, JP
 Fujita, Yorio, Osaka, JP
 Ohmori, Akira, Osaka, JP
 Satokawa, Takaomi, Osaka, JP
 IN FUJII TUNEO (JP); FUJITA YORIO (JP); OHMORI AKIRA (JP); SATOKAWA TAKAOMI (JP)
 PAF Daikin Kogyo Co, Ltd, Osaka, JP
 PA DAIKIN KOGYO CO LTD JP (1197)
 EXNAM Lone, Werren B
 AG Stevens, Davis, Miller & Mosher
 PI US 4346250 A 19820824 (CITED IN 011 LATER PATENTS)
 AI US 1980-203453 19801103
 XPD 24 Aug 1999
 RLI US 1979-31843 19790420 CONTINUATION-IN-PART ABANDONED
 PRAI JP 1978-48045 19780421
 FI US 4346250 19820824
 DT Utility
 FS CHEMICAL
 GRANTED
 OS CA 97:197835
 MRN 003839 MFN: 0954
 CLMN 7
 GI 2 Drawing Sheet(s), 3 Figure(s).
 AB Fluoroalkanols of the formula: $H(CF_2CF_2)_nCH_2OH$ (I) are prepared by telomerization of tetrafluoroethylene with methanol in a batch system. The reaction is carried out while introducing tetrafluoroethylene continuously into the reaction system. The production of fluoroalkanols of the formula (I) wherein n is an integer of 5 or more is suppressed and the production of fluoroalkanols of the formula (I) wherein n is an integer of 4 or less is enhanced.

L2 ANSWER 184 OF 192 JAPIO (C) 2004 JPO on STN
 AN 1979-154707 JAPIO
 TI TELOMERIZATION OF TETRAFLUOROETHYLENE
 IN SATOKAWA TAKAOMI; FUJII TSUNEO; OMORI AKIRA; FUJITA YORIO

PA DAIKIN IND LTD
PI JP 54154707 A 19791206 Showa
AI JP 1978-48045 (JP53048045 Showa) 19780421
PRAI JP 1978-48045 19780421
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1979
AB PURPOSE: To obtain a low-molecular weight telomer which is an intermediate for pharmaceuticals and pesticides safely in high yield in preparing a fluoroalkanol through telomerization of tetrafluoroethylene (TFE), by adding TFE to the reaction system continuously.
CONSTITUTION: TFE is continuously added to methanol containing a polymerization initiator and subjected to telomerization at a partial pressure ratio of TFE to the methanol of 30:1~1:5, a reaction temperature of 25~150°C, and the total pressure of 1~12 kg/cm² gauge to give a telomer mixture comprising mainly a compound of the formula (n is ≤4). An acid acceptor, e.g. NaOH, is preferably added to the reaction mixture, and its amount is in the range of 4×10⁻⁴~4×10⁻³ mol per mol of the methanol.
EFFECT: An extremely small amount of the by-product compound of the formula (n is ≥5) which has no industrial value. The reaction under low pressure permits easy control of reaction rates and eliminates the possibility of explosion.
COPYRIGHT: (C)1979,JPO&Japio

L2 ANSWER 190 OF 192 JAPIO (C) 2004 JPO on STN
AN 2002-069021 JAPIO
TI METHOD FOR PRODUCING FLUORINE-CONTAINING ALCOHOL
IN YOSHIZAWA TORU; TAKAGI SHOJI
PA DAIKIN IND LTD
PI JP 2002069021 A 20020308 Heisei
AI JP 2000-257853 (JP2000257853 Heisei) 20000828
PRAI JP 2000-257853 20000828
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2002
AB PROBLEM TO BE SOLVED: To provide a method capable of producing a high purity fluorine- containing alcohol with less t-butanol contents.
SOLUTION: This method for producing the fluorine-containing alcohol expressed by the following formula (1): H(CF₂CF₂)_nCH₂OH in the presence of an organic peroxide generating t-butanol by its decomposition and an acid- accepting agent comprises the steps of (i) reacting tetrafluoroethylene with methanol; (ii) removing the reaction product of the acid-accepting agent and the unreacted acid-accepting agent from the obtained crude reaction product; and (iii) heating the crude reaction product treated with the above (ii) process under an acidic condition for separating the fluorine -containing alcohol of the formula (1).
COPYRIGHT: (C)2002,JPO

L2 ANSWER 191 OF 192 JAPIO (C) 2004 JPO on STN
AN 2002-069020 JAPIO
TI METHOD FOR PRODUCING FLUOROALCOHOL
IN OKAMOTO SHUICHI
PA ASAHI GLASS CO LTD
PI JP 2002069020 A 20020308 Heisei
AI JP 2000-254433 (JP2000254433 Heisei) 20000824
PRAI JP 2000-254433 20000824
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2002
AB PROBLEM TO BE SOLVED: To obtain a high-purity fluoroalcohol in good purification yield.
SOLUTION: In this method for producing the fluoroalcohol by reacting methanol with tetrafluoroethylene or

hexafluoropropylene in the presence of an alkyl peroxide, liquid after finishing the reaction is distilled in the presence of water and HF to separate the liquid into a fraction containing an alcohol derived from the peroxide and a bottom liquid containing the above fluoroalcohol and then, the bottom liquid is purified to recover the fluoroalcohol.

COPYRIGHT: (C)2002,JPO

L2 ANSWER 192 OF 192 JAPIO (C) 2004 JPO on STN
 AN 2000-327607 JAPIO
 TI PRODUCTION OF FLUOROALCOHOL
 IN YAMAGUCHI FUMIHIKO; TAKAGI SHOJI; YOSHIZAWA TORU; OGURA HIDETSUGU; KATSUBE TOSHIYUKI
 PA DAIKIN IND LTD
 PI JP 2000327607 A 20001128 Heisei
 AI JP 1999-251745 (JP11251745 Heisei) 19990906
 PRAI JP 1999-68932 19990315
 SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2000
 AB PROBLEM TO BE SOLVED: To obtain a fluoroalcohol suitable for producing information recording media and photoreceptors for films by reaction between methanol and tetrafluoroethylene or the like in the presence of a reaction initiator followed by removing the undecomposed reaction initiator from the system and then carrying out a distillation.
 SOLUTION: This fluoroalcohol of the formula $H(CFR_1CF_2)_nCH_2OH$ (n is 1 or 2, when n=1, R1 is F or CF3, or when n=2, R1 is F) is obtained by reaction between methanol and tetrafluoroethylene or hexafluoropropylene in the presence of a reaction initiator (e.g. di-t-butyl peroxide) followed by removing the undecomposed reaction initiator in the resultant reaction liquid and then carrying out a distillation; wherein removal of the undecomposed reaction initiator is accomplished preferably by decomposing it through heating the reaction liquid, contacting the liquid with an acid catalyst, base or reducing agent, irradiating the liquid with ultraviolet rays, or the like.
 COPYRIGHT: (C)2000,JPO

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	253.26	253.47
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.80	-2.80

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